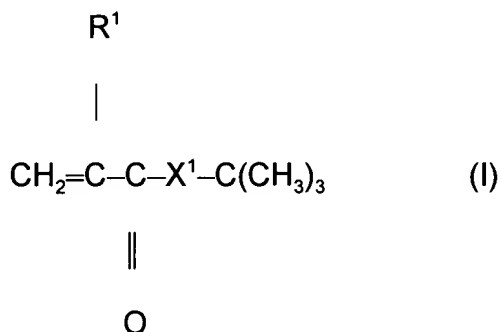


**IN THE CLAIMS**

1. (amended) A cosmetic hair treatment composition comprising at least one water-soluble or water-dispersible polymer and a cosmetic auxiliary, which wherein the polymer comprises, in copolymerized form,

- a) from 45 to 85% by weight of at least one  $\alpha,\beta$ -ethylenically unsaturated monomer of the formula I

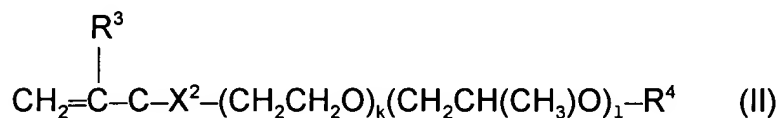


in which

$\text{R}^1$  is hydrogen or  $\text{C}_1\text{-C}_8$ -alkyl, and

$\text{X}^1$  is O or  $\text{NR}^2$ , where  $\text{R}^2$  is hydrogen,  $\text{C}_1\text{-C}_8$ -alkyl or  $\text{C}_5\text{-C}_8$ -cycloalkyl,

- b) from 10 to 30% by weight of at least one  $\alpha,\beta$ -ethylenically unsaturated mono- and/or dicarboxylic acid,
- c) from 1 to 20% by weight of at least one compound having at least one  $\alpha,\beta$ -ethylenically unsaturated double bond and at least 5 alkylene oxide units per molecule, chosen from polyether acrylates of the formula II





in which the order of the alkylene oxide units is arbitrary,

k and l independently of one another are an integer from 0 to 50, the sum

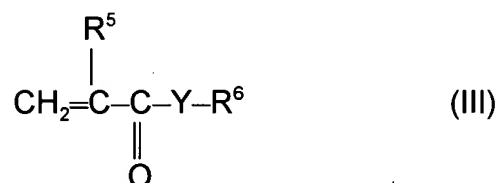
k + l being at least 5,

R<sup>3</sup> is hydrogen or C<sub>1</sub>-C<sub>8</sub>-alkyl, and

R<sup>4</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub>-alkyl,

X<sup>2</sup> is O or NR<sup>2</sup>, where R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>8</sub>-alkyl or C<sub>5</sub>-C<sub>8</sub>-cycloalkyl,

- d) from 1 to 30% by weight of at least one compound having at least one α,β-ethylenically unsaturated double bond and at least one straight-chain or branched C<sub>8</sub>-C<sub>30</sub>-alkyl or -alkylene radical per molecule, chosen from compounds of the formula III



in which

R<sup>5</sup> is hydrogen or C<sub>1</sub>-C<sub>8</sub>-alkyl,

R<sup>6</sup> is a straight-chain or branched C<sub>8</sub>-C<sub>30</sub>-alkyl radical, and

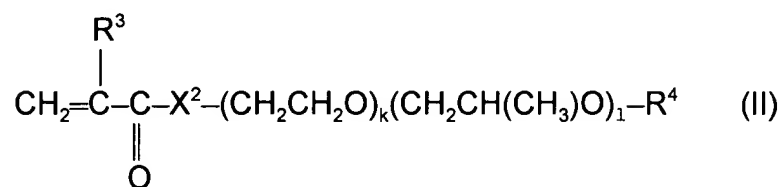
Y is O or NR<sup>7</sup>, where R<sup>7</sup> is hydrogen, C<sub>1</sub>-C<sub>8</sub>-alkyl or C<sub>5</sub>-C<sub>8</sub>-cycloalkyl,

where the components c) and/or d) can be partially or completely replaced by a component e), where

- e) is at least one compound having at least one α,β-ethylenically unsaturated

double bond, at least 5 alkylene oxide units and at least one straight-chain or branched C<sub>8</sub>-C<sub>30</sub>-alkyl or -alkylene radical per molecule, where component e) is chosen from

e1) polyether acrylates of the formula II



in which the order of the alkylene oxide units is arbitrary,

k and l independently of one another are an integer from 0 to 50, the sum

k + l being at least 5,

R<sup>3</sup> is hydrogen or C<sub>1</sub>-C<sub>8</sub>-alkyl, and

R<sup>4</sup> is C<sub>8</sub>-C<sub>30</sub>-alkyl,

X<sup>2</sup> is O or NR<sup>2</sup>, where R<sup>2</sup> is hydrogen, C<sub>1</sub>-C<sub>8</sub>-alkyl or C<sub>5</sub>-C<sub>8</sub>-cycloalkyl,

e2) urethane (meth)acrylates containing alkylene oxide groups and mixtures thereof

or the salts thereof.

**Claims 2 - 5 (canceled).**

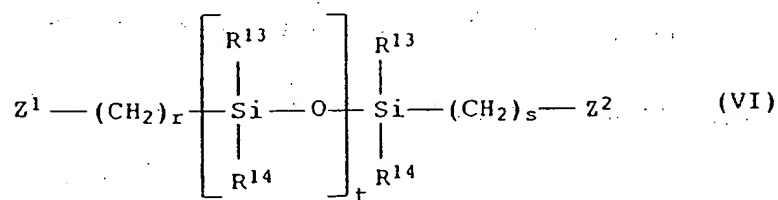
6. (previously presented) A composition as claimed in claim 5, where component e)2 additionally comprises, in incorporated form, at least one component chosen from

n) compounds having a molecular weight in the range from 56 to 300 which

contain

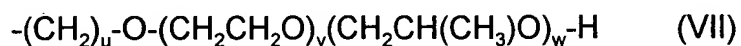
two active hydrogen atoms per molecule,

- o) polytetrahydrofurans having two active hydrogen atoms per molecule,
- p) polysiloxanes of the formula VI



in which

$R^{13}$  and  $R^{14}$  independently of one another are  $C_1$ - $C_4$ -alkyl, benzyl, phenyl or a radical of the formula VII



where

in the formula VII the order of the alkylene oxide units is arbitrary,

u is an integer from 1 to 8,

v and w independently of one another are an integer from 0 to 200, the sum  $v + w$  being  $> 0$ ,

$Z^1$  and  $Z^2$  independently of one another are OH,  $NHR^{15}$  or a radical of the formula VII,

where  $R^{15}$  is hydrogen,  $C_1$ - $C_6$ -alkyl or  $C_5$ - $C_8$ -cycloalkyl,

r and s independently of one another are from 2 to 8,

t is from 3 to 50,

and mixtures thereof.

8. (previously presented) A composition as claimed in claim 1 in the form of a hair-treatment composition.
9. (previously presented) A composition as claimed in claim 1, comprising
  - a) from 0.5% to 20% by weight of a water-soluble or -dispersible polymer as defined in claim 1,
  - b) from 30 to 99.5% by weight, of at least one solvent chosen from water, water-miscible solvent and mixtures thereof,
  - c) from 0 to 70% by weight of a propellant
  - d) from 0 to 10% by weight of at least one water-soluble or -dispersible hair polymer which is different from a),
  - e) from 0 to 0.3% by weight of at least one water-insoluble silicone,
  - f) from 0 to 1% by weight of at least one nonionic, siloxane-containing, water-soluble or -dispersible polymer.
10. (original) Coating composition or binder for solid medicament forms or coating composition for the textile, paper, printing, leather and adhesive industries, comprising a polymer as defined in claim 1.
11. (previously presented) A composition as claimed in claim 9, wherein component b) is from 40 to 99% by weight.
12. (previously presented) A composition as claimed in claim 1, in the form of a hair spray.

KIM et al., Ser. No. 09/382,708

13. (new) The composition as claimed in claim 1, wherein the cosmetic auxiliaries are softening agents, emollients, perfumes, ultraviolet absorbers, dyes, antistatics, agents for improving combability, preservatives and antifoams.